

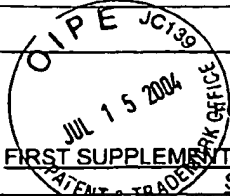
Page 1 of 62							
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block; text-align: center;"> OIPE JC139 JUL 15 2004 PATENT & TRADEMARK OFFICE </div> <div style="margin-top: 10px;"> FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">ATTY. DOCKET NO. 1700.0180002/BJD/SJE</td> <td style="width: 40%;">APPLICATION NO. 09/848,616</td> </tr> <tr> <td colspan="2">FIRST NAMED INVENTOR Sebbel <i>et al.</i></td> </tr> <tr> <td>FILING DATE May 4, 2001</td> <td>ART UNIT 1648</td> </tr> </table>	ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616	FIRST NAMED INVENTOR Sebbel <i>et al.</i>		FILING DATE May 4, 2001	ART UNIT 1648
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<i>MM</i> ↓	AF2	5,143,726	09/01/1992	Thornton <i>et al.</i>			11/20/1989
	AG2	5,580,859	12/03/1996	Felgner <i>et al.</i>			03/18/1994
	AH2	5,935,821	08/10/1999	Chatterjee <i>et al.</i>			11/21/1996
	AI2	2004/0059094	03/25/2004	Bachmann <i>et al.</i>			07/18/2003
	AJ2	2004-0076611	04/22/2004	Bachmann <i>et al.</i>			07/14/2003
	AK2	2004-0076645	04/22/2004	Bachmann <i>et al.</i>			07/18/2003

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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<i>MM</i> ↓	AN4	WO 99/28478	06/10/1999	WIPO			Yes No
	AO4	WO 99/57289	11/11/1999	WIPO			Yes No
	AP4	WO 00/50461	08/31/2000	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR		
<i>MM</i> ↓	AS	35	Abraham, J.M., <i>et al.</i> , "An invertible element of DNA controls phase variation of type 1 fimbriae of Escherichia coli," <i>Proc Natl Acad Sci U S A.</i> 1985 Sep;82(17):5724-5727, National Academy Press (1985)
	AT	35	Abraham, S.N., <i>et al.</i> , "Glycerol-induced unraveling of the tight helical conformation of Escherichia coli type 1 fimbriae," <i>J Bacteriol.</i> 1992 Aug;174(15):5145-5148, American Society for Microbiology (1992)

EXAMINER <i>Nieder All Considered</i>	DATE CONSIDERED <i>2-25-05</i>
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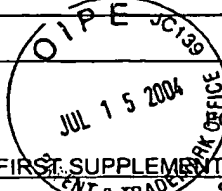
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	AN						Yes
							No
	AO						Yes
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MM	AR	36	Amon, R., <i>et al.</i> , "A mimotope peptide-based vaccine against <i>Schistosoma mansoni</i> : synthesis and characterization," <i>Immunology</i> . 2000 Dec;101(4):555-562, Blackwell Science, Ltd. (December 2000)
↓	AS	36	Bachmann, M.F., <i>et al.</i> , "TRANCE, a tumor necrosis factor family member critical for CD40 ligand-independent T helper cell activation," <i>J Exp Med</i> . 1999 Apr 5;189(7):1025-1031, The Rockefeller University Press (1999)
↓	AT	36	Bass, S., and Yang, M., "Expressing cloned genes in <i>Escherichia coli</i> ," in <i>Protein Function: A practical Approach</i> , 2 nd ed., Creighton, T.E., ed., IRL Press, Oxford, Great Britain, pp. 29-55 (1997)

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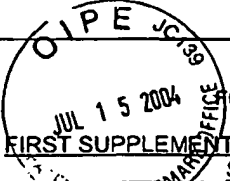
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	AP						Yes
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MM	AR	37	Blomfield, I.C., <i>et al.</i> , "Type 1 fimbriation and fimE mutants of Escherichia coli K-12., " <i>J Bacteriol.</i> 1991 Sep;173(17):5298-5307, American Society for Microbiology (1991)
↓	AS	37	Blomfield, I.C., <i>et al.</i> , "Integration host factor stimulates both FimB- and FimE-mediated site-specific DNA inversion that controls phase variation of type 1 fimbriae expression in Escherichia coli, " <i>Mol Microbiol.</i> 1997 Feb;23(4):705-717, Blackwell Science, Ltd. (1997)
↓	AT	37	Boder, E.T., and Wittrup, K.D., "Yeast surface display for directed evolution of protein expression, affinity, and stability, " <i>Methods Enzymol.</i> 2000;328:430-444, Academic Press (October 2000)

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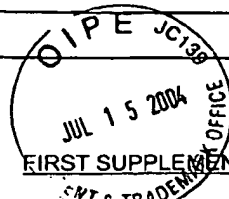
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MM	AR	38	Bonci, A., et al., "Relatedness and phylogeny within the family of periplasmic chaperones involved in the assembly of pili or capsule-like structures of gram-negative bacteria," <i>J Mol Evol.</i> 1997 Mar;44(3):299-309, Springer Verlag New York Inc. 1997
↓	AS	38	Brinton, Jr., C.C., "the Structure, function, synthesis and genetic control of bacterial pili and a molecular model for DNA and RNA transport in gram negative bacteria," <i>Trans. N.Y. Acad. Sci.</i> 1965;27:1003-1054, New York Academy of Sciences (1965)
↓	AT	38	Brown, K.D., et al., "A family of small inducible proteins secreted by leukocytes are members of a new superfamily that includes leukocyte and fibroblast-derived inflammatory agents, growth factors, and indicators of various activation processes," <i>J Immunol.</i> 1989 Jan 15;142(2):679-687, The American Association of Immunologists (1989)


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	AR	39	Brown, P.M., <i>et al.</i> , "A single-step purification of biologically active recombinant human interleukin-5 from a baculovirus expression system," <i>Protein Expr Purif.</i> 1995 Feb;6(1):63-71, Academic Press, Inc. (1995)
	AS	39	Burger, J.A., <i>et al.</i> , "Blood-derived nurse-like cells protect chronic lymphocytic leukemia B cells from spontaneous apoptosis through stromal cell-derived factor-1," <i>Blood.</i> 2000 Oct;96(8):2655-63, The American Society of Hematology (October 2000)
	AT	39	Burghoff, R.L., <i>et al.</i> , "Utilization of the mouse large intestine to select an Escherichia coli F-18 DNA sequence that enhances colonizing ability and stimulates synthesis of type 1 fimbriae," <i>Infect Immun.</i> 1993 Apr;61(4):1293-1300, American Society for Microbiology (1993)

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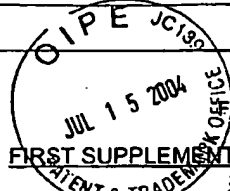
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MM	AR	40	Daugherty, P.S. <i>et al.</i> , "Development of an optimized expression system for the screening of antibody libraries displayed on the Escherichia coli surface," <i>Protein Eng.</i> 1999 Jul;12(7):613-621, Oxford University Press (July 1999)
↓	AS	40	Eisenstein, B.I., <i>et al.</i> , "Phase variation of type 1 fimbriae in Escherichia coli is under transcriptional control," <i>Science</i> . 1981 Oct 16;214(4518):337-339, American Association for the Advancement of Science (1981)
↓	AT	40	Elisseeva, E.L., <i>et al.</i> , "NMR studies of active N-terminal peptides of stromal cell-derived factor-1. Structural basis for receptor binding," <i>J Biol Chem.</i> 2000 Sep 1;275(35):26799-26805, The American Society for Biochemistry and Molecular Biology Inc. (September 2000)

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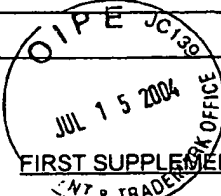
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>41</u>	Fehr, T., <i>et al.</i> , "T cell-independent type I antibody response against B cell epitopes expressed repetitively on recombinant virus particles," <i>Proc Natl Acad Sci U S A.</i> 1998 Aug 4;95(16):9477-9481, National Academy Press (1998)
	AS	<u>41</u>	Gally, D.L., <i>et al.</i> , "Environmental regulation of the fim switch controlling type 1 fimbrial phase variation in Escherichia coli K-12: effects of temperature and media," <i>J Bacteriol.</i> 1993 Oct;175(19):6186-6193, American Society for Microbiology (1993)
	AT	<u>41</u>	Gally, D.L., <i>et al.</i> , "Interaction of FimB and FimE with the fim switch that controls the phase variation of type 1 fimbriae in Escherichia coli K-12," <i>Mol Microbiol.</i> 1996 Aug;21(4):725-38, Blackwell Science Ltd: (1996)

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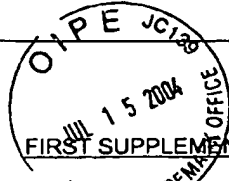
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MM ↓	AR	42	Gherardi, E., <i>et al.</i> , "A single-step procedure for cloning and selection of antibody-secreting hybridomas," <i>J Immunol Methods</i> . 1990 Jan 24;126(1):61-68, Elsevier (1990)
	AS	42	Hanes, J., <i>et al.</i> , "Picomolar affinity antibodies from a fully synthetic naive library selected and evolved by ribosome display," <i>Nat Biotechnol</i> . 2000 Dec;18(12):1287-1292, Nature Publishing Company (December 2000)
	AT	42	Hanson, M.S., <i>et al.</i> , "Purification of the Escherichia coli type 1 pilin and minor pilus proteins and partial characterization of the adhesin protein," <i>J Bacteriol</i> . 1988 Aug;170(8):3350-3358, American Society for Microbiology (1988)

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


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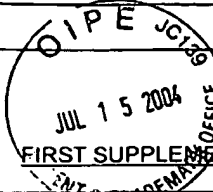
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	AR	<u>43</u>	Hanson, M.S., and Brinton, Jr., C.C., "Identification and characterization of E. coli type-1 pilus tip adhesion protein," <i>Nature</i> . 1988 Mar 17;332(6161):265-8, Nature Publishing Group (1988)
	AS	<u>43</u>	Harrison, J.L., <i>et al.</i> , "Screening of phage antibody libraries," <i>Methods Enzymol.</i> 1996;267:83-109, Macmillan Publisher Ltd. (1996)
	AT	<u>43</u>	Hirel, P.-H., <i>et al.</i> , "Extent of N-terminal methionine excision from Escherichia coli proteins is governed by the side-chain length of the penultimate amino acid," <i>Proc Natl Acad Sci U S A.</i> 1989 Nov;86(21):8247-8251, National Academy Press (1989)

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	AL						Yes No
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	AR	<u>44</u>	Holmgren, A., <i>et al.</i> , "Conserved immunoglobulin-like features in a family of periplasmic pilus chaperones in bacteria," <i>EMBO J.</i> 1992 Apr;11(4):1617-1622, Oxford University Press (1992)
	AS	<u>44</u>	Holmgren, A., and Bränden, C.-I., "Crystal structure of chaperone protein PapD reveals an immunoglobulin fold," <i>Nature</i> . 1989 Nov 16;342(6247):248-251, Nature Publishing Group (1989)
	AT	<u>44</u>	Hultgren, S.J., <i>et al.</i> , "PapD and superfamily of periplasmic immunoglobulin-like pilus chaperones," <i>Adv Protein Chem.</i> 1993;44:99-123, Academic Press Inc. (1993)

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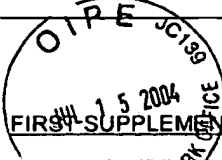
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	AT	<u>45</u>	Hung, D.L., <i>et al.</i> , "Molecular basis of two subfamilies of immunoglobulin-like chaperones," <i>EMBO J</i> . 1996 Aug 1;15(15):3792-3805, Oxford University Press (1996)

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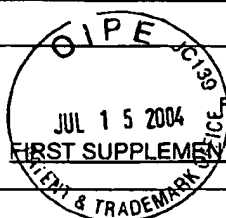
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	46	Ingle, E., <i>et al.</i> , "Production and purification of recombinant human interleukin-5 from yeast and baculovirus expression systems," <i>Eur J Biochem.</i> 1991 Mar 28;196(3):623-629, Blackwell Science Ltd. (1991)
	AS	46	Jacob-Dubuisson, F., <i>et al.</i> , "PapD chaperone function in pilus biogenesis depends on oxidant and chaperone-like activities of DsbA," <i>Proc Natl Acad Sci U S A.</i> 1994 Nov 22;91(24):11552-11556, National Academy Press (1994)
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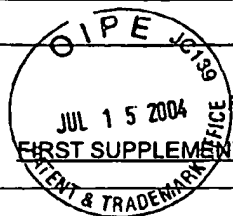
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	47	Jacob-Dubuisson, F., <i>et al.</i> , "Chaperone-assisted self-assembly of pili independent of cellular energy," <i>J Biol Chem.</i> 1994 Apr 29;269(17):12447-12455, The American Society for Biochemistry and Molecular Biology Inc. (1994)
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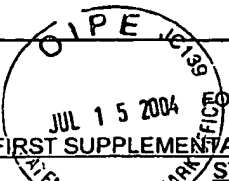
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>48</u>	Kim, K.-H., <i>et al.</i> , "A cysteine-rich adipose tissue-specific secretory factor inhibits adipocyte differentiation," <i>J Biol Chem.</i> 2001 Apr 6;276(14):11252-11256, The American Society for Biochemistry and Molecular Biology Inc. (April 2001)
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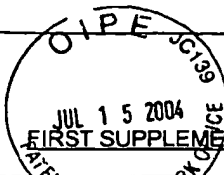
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	49	Klemm, P., "FimC, a chaperone-like periplasmic protein of Escherichia coli involved in biogenesis of type 1 fimbriae," <i>Res Microbiol.</i> 1992 Nov-Dec;143(9):831-838, Institute Pasteur/Elsevier (1992)
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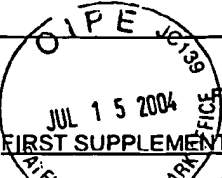
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>50</u>	Krogfelt, K.A., <i>et al.</i> , "Direct evidence that the FimH protein is the mannose-specific adhesin of Escherichia coli type 1 fimbriae," <i>Infect Immun.</i> 1990 Jun;58(6):1995-1998, American Society for Microbiology (1990)
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>51</u>	Luther, S.A., <i>et al.</i> , "BLC expression in pancreatic islets causes B cell recruitment and lymphotoxin-dependent lymphoid neogenesis, " <i>Immunity</i> . 2000 May;12(5):471-481, Cell Press (May 2000)
	AS	<u>51</u>	Mackay, J.L., and Browning, J.L., "Turning off follicular dendritic cells, " <i>Nature</i> . 1998 Sep 3;395(6697):26-27, Macmillan Magazines Ltd. (1998)
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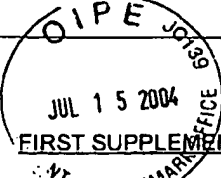
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>52</u>	McClain, M.S., <i>et al.</i> , "Roles of <i>fimB</i> and <i>fimE</i> in site-specific DNA inversion associated with phase variation of type 1 fimbriae in <i>Escherichia coli</i> ," <i>J Bacteriol.</i> 1991 Sep;173(17):5308-5314, American Society for Microbiology (1991)
	AS	<u>52</u>	Mikulowska, A., <i>et al.</i> , "Macrophage migration inhibitory factor is involved in the pathogenesis of collagen type II-induced arthritis in mice," <i>J Immunol.</i> 1997 Jun 1;158(11):5514-5517, The American Association of Immunologists (1997)
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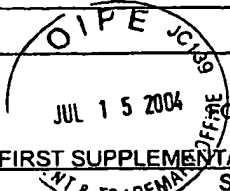
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>53</u>	Mitchell, D.L., <i>et al.</i> , "Purification and characterisation of recombinant murine Interleukin-5 glycoprotein, from a Baculovirus expression system, " <i>Biochem Soc Trans.</i> 1993 Nov;21(4):332S, Portland Press (1993)
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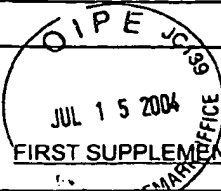
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>54</u>	Nieland, J.D., <i>et al.</i> , "Chimeric papillomavirus virus-like particles induce a murine self-antigen-specific protective and therapeutic antitumor immune response," <i>J Cell Biochem.</i> 1999 May 1;73(2):145-152, Wiley-Liss Inc. (May 1999)
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	AT	<u>54</u>	Olszewska, W., <i>et al.</i> , "Protection against measles virus-induced encephalitis by anti-mimotope antibodies: the role of antibody affinity," <i>Virology.</i> 2000 Jun 20;272(1):98-105, Academic Press (June 2000)

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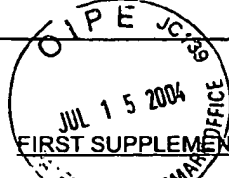
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	AT	55	Pierson-Mullany, L.K., <i>et al.</i> , "Characterization of polyclonal allergen-specific IgE responses by affinity distributions," <i>Mol Immunol.</i> 2000 Aug;37(10):613-620, Elsevier Science Ltd (August 2000)

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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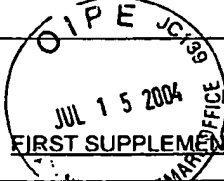
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>56</u>	Ritter, A., <i>et al.</i> , "The Pai-associated leuX specific tRNA ⁵ (Leu) affects type 1 fimbriation in pathogenic Escherichia coli by control of FimB recombinase expression, " <i>Mol Microbiol.</i> 1997 Sep;25(5):871-882, Blackwell Science Ltd (1997)
	AS	<u>56</u>	Roesch, P.L., and Blomfield, I.C., "Leucine alters the interaction of the leucine-responsive regulatory protein (Lrp) with the fim switch to stimulate site-specific recombination in Escherichia coli, " <i>Mol Microbiol.</i> 1998 Feb;27(4):751-761, Blackwell Science Ltd (1998)
	AT	<u>56</u>	Russell, P.W., and Orndorff, P.E., "Lesions in two Escherichia coli type 1 pilus genes alter pilus number and length without affecting receptor binding, " <i>Bacteriol.</i> 1992 Sep;174(18):5923-5935, American Society for Microbiology (1992)

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	FORM PTO-1449		ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
	FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		FIRST NAMED INVENTOR Sebbel <i>et al.</i>	
			FILING DATE May 4, 2001	ART UNIT 1648

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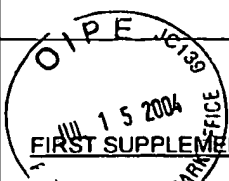
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>57</u>	Saulino, E.T., <i>et al.</i> , "Ramifications of kinetic partitioning on usher-mediated pilus biogenesis, " <i>EMBO J.</i> 1998 Apr 15;17(8):2177-2185, Oxford University Press (1998)
	AS	<u>57</u>	Slepishkin, V.A., <i>et al.</i> , "Protection of mice against influenza A virus challenge by vaccination with baculovirus-expressed M2 protein, " <i>Vaccine.</i> 1995;13(15):1399-1402, Elsevier Science Ltd. (1995)
	AT	<u>57</u>	Slonim, L.N., <i>et al.</i> , "Interactive surface in the PapD chaperone cleft is conserved in pilus chaperone superfamily and essential in subunit recognition and assembly, " <i>EMBO J.</i> 1992 Dec;11(13):4747-4756, Oxford University Press (1992)

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	FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	FIRST NAMED INVENTOR Sebbel <i>et al.</i>	
		FILING DATE May 4, 2001	ART UNIT 1648

U.S. PATENT DOCUMENTS

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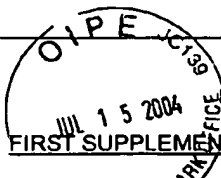
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>58</u>	Smyth, C.J., <i>et al.</i> , "Fimbrial adhesins: similarities and variations in structure and biogenesis," <i>FEMS Immunol Med Microbiol.</i> 1996 Dec 1;16(2):127-139, Elsevier (1996)
	AS	<u>58</u>	Striker, R.T., <i>et al.</i> , "Stable fiber-forming and nonfiber-forming chaperone-subunit complexes in pilus biogenesis," <i>J Biol Chem.</i> 1994 Apr 22;269(16):12233-12239, The American Society for Biochemistry and Molecular Biology Inc. (1994)
	AT	<u>58</u>	Thanassi, D.G., <i>et al.</i> , "The PapC usher forms an oligomeric channel: implications for pilus biogenesis across the outer membrane," <i>Proc Natl Acad Sci U S A.</i> 1998 Mar 17;95(6):3146-3151, National Academy Press (1998)

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 FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
	FIRST NAMED INVENTOR Sebbel <i>et al.</i>	
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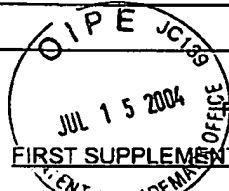
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>59</u>	Walse, B., <i>et al.</i> , "Transferred nuclear Overhauser effect spectroscopy study of a peptide from the PapG pilus subunit bound by the Escherichia coli PapD chaperone, " <i>FEBS Lett.</i> 1997 Jul 21;412(1):115-120, Elsevier Science B.V. (1997)
	AS	<u>59</u>	Wynne, S.A., <i>et al.</i> , "The crystal structure of the human hepatitis B virus capsid, " <i>Mol Cell.</i> 1999 Jun;3(6):771-780, Cell Press (June 1999)
	AT	<u>59</u>	Zuercher, A.W., <i>et al.</i> , "Oral anti-IgE immunization with epitope-displaying phage, " <i>Eur J Immunol.</i> 2000 Jan;30(1):128-135, Wiley-Vch Verlag GmbH (January 2000)

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	FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT			

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	60	NCBI Entrez, GenBank Report, Accession No. P03153, from Seeger, C., et al. (January 1990)
	AS	60	NCBI Entrez, GenBank Report, Accession No. X59397, from Jordan, C.T., et al. (November 1991)
	AT	60	NCBI Entrez, GenBank Report, Accession No. 711678A, from Shipolini, R.A., et al. (July 1992)

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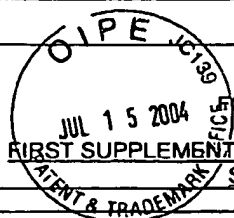
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>61</u>	NCBI Entrez, GenBank Report, Accession No. M27603, from Orndorff, P.E., and Falkow, S. (April 1993)
	AS	<u>61</u>	NCBI Entrez, GenBank Report, Accession No. M20706, from Nassal M. (April 1993)
	AT	<u>61</u>	NCBI Entrez, GenBank Report, Accession No. AAA37490, from Rouvler E. (July 1993)

DATE CONSIDERED

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FORM PTO-1449

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE
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 ATTY. DOCKET NO.
1700.0180002/BJD/SJE
FIRST NAMED INVENTOR
Sebbel et al.
FILING DATE
May 4, 2001

 APPLICATION NO.
09/848,616
ART UNIT
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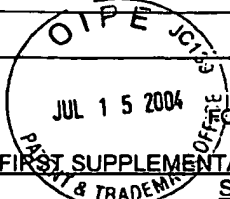
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>62</u>	NCBI Entrez, GenBank Report, Accession No. M90520, from Kew, M.C., et al. (August 1993)
	AS	<u>62</u>	NCBI Entrez, GenBank Report, Accession No. X00981, from Klemm, P. (September 1993)
	AT	<u>62</u>	NCBI Entrez, GenBank Report, Accession No. VCBPQB, from Maita, T., and Konigsberg, W. (December 1993)

EXAMINER

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		FIRST NAMED INVENTOR Sebbel <i>et al.</i>	
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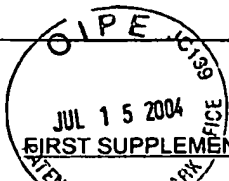
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	63	NCBI Entrez, GenBank Report, Accession No. AAA16663, from Kozlovskaya, T.M., <i>et al.</i> (March 1994)
	AS	63	NCBI Entrez, GenBank Report, Accession No. X02514, from Yanisch-Perron, C., <i>et al.</i> (May 1994)
	AT	63	NCBI Entrez, GenBank Report, Accession No. X85256, from Lai, M.E., <i>et al.</i> (April 1995)

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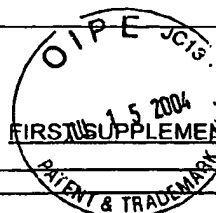
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	64	NCBI Entrez, GenBank Report, Accession No. X85259, from Lai, M.E., et al., (April 1995)
	AS	64	NCBI Entrez, GenBank Report, Accession No. X85260, from Lai, M.E., et al. (April 1995)
	AT	64	NCBI Entrez, GenBank Report, Accession No. X85272, from Lai, M.E., et al. (April 1995)

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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>65</u>	NCBI Entrez, GenBank Report, Accession No. X85275, from Lai, M.E., et al. (April 1995)
	AS	<u>65</u>	NCBI Entrez, GenBank Report, Accession No. X85284, from Lai, M.E., et al. (April 1995)
	AT	<u>65</u>	NCBI Entrez, GenBank Report, Accession No. X85285, from Lai, M.E., et al. (April 1995)

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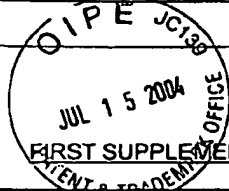
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	AS	66	NCBI Entrez, GenBank Report, Accession No. X85287, from Lai, M.E., <i>et al.</i> (April 1995)
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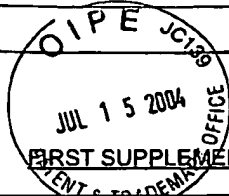
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		FORM PTO-1449	
		ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
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	AS	67	NCBI Entrez, GenBank Report, Accession No. X85295, from Lai, M.E., <i>et al.</i> (April 1995)
	AT	67	NCBI Entrez, GenBank Report, Accession No. X85296, from Lai, M.E., <i>et al.</i> (April 1995)

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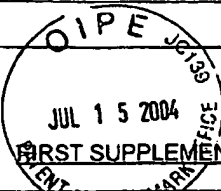
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>68</u>	NCBI Entrez, GenBank Report, Accession No. X85297, from Lai, M.E., <i>et al.</i> (April 1995)
	AS	<u>68</u>	NCBI Entrez, GenBank Report, Accession No. X85298, from Lai, M.E., <i>et al.</i> (April 1995)
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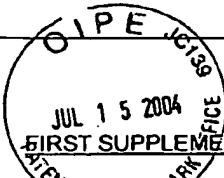
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	AT	69	NCBI Entrez, GenBank Report, Accession No. X85303, from Lai, M.E., et al. (April 1995)

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	FORM PTO-1449		ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616
	FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		FIRST NAMED INVENTOR Sebbel <i>et al.</i>	
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	AN						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	70	NCBI Entrez, GenBank Report, Accession No. X85305, from Lai, M.E., <i>et al.</i> (April 1995)
	AS	70	NCBI Entrez, GenBank Report, Accession No. X85307, from Lai, M.E., <i>et al.</i> (April 1995)
	AT	70	NCBI Entrez, GenBank Report, Accession No. X85311, from Lai, M.E., <i>et al.</i> (April 1995)

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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	71	NCBI Entrez, GenBank Report, Accession No. X85314, from Lai, M.E., et al. (April 1995)
	AS	71	NCBI Entrez, GenBank Report, Accession No. X85315, from Lai, M.E., et al. (April 1995)
	AT	71	NCBI Entrez, GenBank Report, Accession No. X85316, from Lai, M.E., et al. (April 1995)

EXAMINER	DATE CONSIDERED
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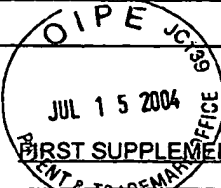
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MAY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>72</u>	NCBI Entrez, GenBank Report, Accession No. X85317, from Lai, M.E., et al. (April 1995)
	AS	<u>72</u>	NCBI Entrez, GenBank Report, Accession No. X85319, from Lai, M.E., et al. (April 1995)
	AT	<u>72</u>	NCBI Entrez, GenBank Report, Accession No. X80925, from Karayiannis, P. (December 1995)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>73</u>	NCBI Entrez, GenBank Report, Accession No. AAC50341, from Yao, Z., <i>et al.</i> (January 1996)
	AS	<u>73</u>	NCBI Entrez, GenBank Report, Accession No. X72702, from Preisler-Adams, S., <i>et al.</i> (February 1996)
	AT	<u>73</u>	NCBI Entrez, GenBank Report, Accession No. VCBPR7, from Weber, K., <i>et al.</i> (April 1996)

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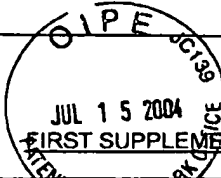
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	AP						Yes No

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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	74	NCBI Entrez, GenBank Report, Accession No. 1604193A, from Gomez, F., et al. (October 1996)
	AS	74	NCBI Entrez, GenBank Report, Accession No. B56338, from Hoffman, D.R. (May 1997)
	AT	74	NCBI Entrez, GenBank Report, Accession No. U95551, from Rao, B.S., et al. (June 1997)

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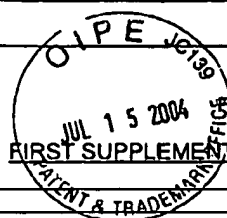
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	75	NCBI Entrez, GenBank Report, Accession No. S14764, from Vandermeers, A., et al. (October 1997)
	AS	75	NCBI Entrez, GenBank Report, Accession No. P03611, from Weber, K., et al. (November 1997)
	AT	75	NCBI Entrez, GenBank Report, Accession No. AAC14699, from Beekwilder, M.J., et al. (April 1998)

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FIRST SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENTATTY. DOCKET NO.
1700.0180002/BJD/SJEAPPLICATION NO.
09/848,616FIRST NAMED INVENTOR
Sebbel *et al.*FILING DATE
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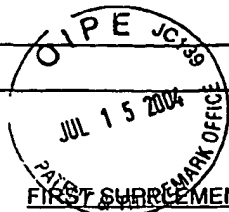
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	76	NCBI Entrez, GenBank Report, Accession No. AAC14704, from Beekwilder, M.J., <i>et al.</i> (April 1998)
	AS	76	NCBI Entrez, GenBank Report, Accession No. AF043593, from Gunther, S., <i>et al.</i> (May 1998)
	AT	76	NCBI Entrez, GenBank Report, Accession No. 1POC, from Scott, D.L., <i>et al.</i> (September 1998)

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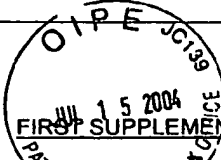
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<div style="text-align: center;">  </div> <div style="text-align: center;">FORM PTO-1449</div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ATTY. DOCKET NO. 1700.0180002/BJD/SJE</td> <td style="width: 50%;">APPLICATION NO. 09/848,616</td> </tr> <tr> <td colspan="2">FIRST NAMED INVENTOR Sebbel <i>et al.</i></td> </tr> <tr> <td>FILING DATE May 4, 2001</td> <td>ART UNIT 1648</td> </tr> </table>	ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616	FIRST NAMED INVENTOR Sebbel <i>et al.</i>		FILING DATE May 4, 2001	ART UNIT 1648
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	<u>77</u>	NCBI Entrez, GenBank Report, Accession No. CAA30374, from Inokuchi, Y., <i>et al.</i> (February 1999)
	AS	<u>77</u>	NCBI Entrez, GenBank Report, Accession No. X02496, from Bichko, V., <i>et al.</i> (April 1999)
	AT	<u>77</u>	NCBI Entrez, GenBank Report, Accession No. MFIV62, from Cox, N.J., <i>et al.</i> (July 1999)

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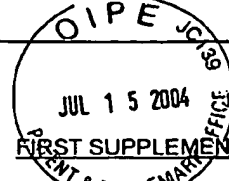
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	78	NCBI Entrez, GenBank Report, Accession No. VCBPFR, from Wittmann-Liebold, B., et al. (July 1999)
	AS	78	NCBI Entrez, GenBank Report, Accession No. A59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)
	AT	78	NCBI Entrez, GenBank Report, Accession No. B59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)

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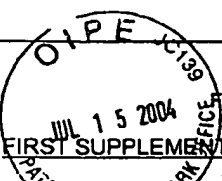
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	79	NCBI Entrez, GenBank Report, Accession No. AF051814, from Boyd, E.F., and Hartl, D.L. (September 1999)
	AS	79	NCBI Entrez, GenBank Report, Accession No. AF110999, from Chang, S.F., <i>et al.</i> (October 1999)
	AT	79	NCBI Entrez, GenBank Report, Accession No. AB033559, from Okamoto, H., <i>et al.</i> (October 1999)

EXAMINER

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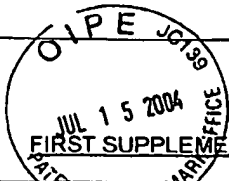
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	80	NCBI Entrez, GenBank Report, Accession No. AB010289, from Koseki, T., <i>et al.</i> (December 1999)
	AS	80	NCBI Entrez, GenBank Report, Accession No. AJ132364, from Graupner, S., <i>et al.</i> (April 2000)
	AT	80	NCBI Entrez, GenBank Report, Accession No. AF237482, from Johnson, J.R., <i>et al.</i> (May 2000)

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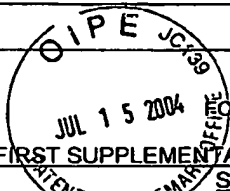
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	AR	<u>81</u>	NCBI Entrez, GenBank Report, Accession No. M32138, from Tong, S.P., <i>et al.</i> (July 2000)
MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AS	<u>81</u>	NCBI Entrez, GenBank Report, Accession No. AF229646, from Skerker, J.M., and Shapiro, L. (August 2000)
	AT	<u>81</u>	NCBI Entrez, GenBank Report, Accession No. M95589, from Shi, H., <i>et al.</i> (January 2001)

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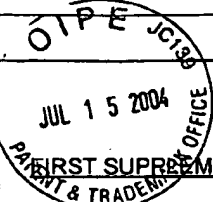
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	82	NCBI Entrez, GenBank Report, Accession No. VCBPM2, from Min Jou, W., <i>et al.</i> (January 2001)
	AS	82	NCBI Entrez, GenBank Report, Accession No. AF323080, from Steppan, C.M., <i>et al.</i> (January 2001)
	AT	82	NCBI Entrez, GenBank Report, Accession No. AF323081, from Steppan, C.M., <i>et al.</i> (January 2001)

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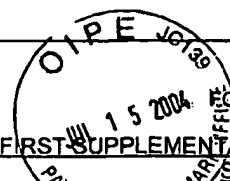
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JERRY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	83	NCBI Entrez, GenBank Report, Accession No. U14003, from Plunket, G., III, et al. (January 2001)
	AS	83	NCBI Entrez, GenBank Report, Accession No. AF121239, from Hannoun, C., et al. (February 2001)
	AT	83	NCBI Entrez, GenBank Report, Accession No. AF121240, from Hannoun, C., et al. (February 2001)

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	ATTY. DOCKET NO. 1700.0180002/BJD/SJE		APPLICATION NO. 09/848,616
	FIRST NAMED INVENTOR Sebbel <i>et al.</i>		
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U.S. PATENT DOCUMENTS

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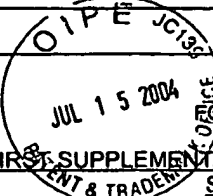
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	84	NCBI Entrez, GenBank Report, Accession No. AF121242, from Hannoun, C., et al. (February 2001)
	AS	84	NCBI Entrez, GenBank Report, Accession No. X59795, from Lai, M.E., et al. (March 2001)
	AT	84	NCBI Entrez, GenBank Report, Accession No. X65257, from Lai, M.E., et al. (March 2001)

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FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		FILING DATE May 4, 2001	ART UNIT 1648

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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	85	NCBI Entrez, GenBank Report, Accession No. X65258, from Lai, M.E., et al. (March 2001)
	AS	85	NCBI Entrez, GenBank Report, Accession No. AF151735, from Gerner, P., et al. (April 2001)
	AT	85	NCBI Entrez, GenBank Report, Accession No. AJ000636, from Gousset, N., et al. (November 2001)

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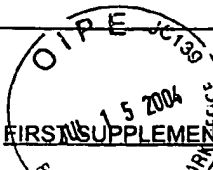
Page 52 of 62							
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; text-align: center; margin-right: 10px;"> OIPE JC139 JUL 15 2004 PATENT & TRADEMARK OFFICE </div> <div> FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT </div> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ATTY. DOCKET NO. 1700.0180002/BJD/SJE</td> <td style="width: 50%;">APPLICATION NO. 09/848,616</td> </tr> <tr> <td colspan="2">FIRST NAMED INVENTOR Sebbel et al.</td> </tr> <tr> <td>FILING DATE May 4, 2001</td> <td>ART UNIT 1648</td> </tr> </table>	ATTY. DOCKET NO. 1700.0180002/BJD/SJE	APPLICATION NO. 09/848,616	FIRST NAMED INVENTOR Sebbel et al.		FILING DATE May 4, 2001	ART UNIT 1648
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	86	NCBI Entrez, GenBank Report, Accession No. AAB59424, from Kenten, J.H., et al. (February 2002)
	AS	86	NCBI Entrez, GenBank Report, Accession No. AAC06250, from Beekwilder, M.J., et al. (March 2002)
	AT	86	NCBI Entrez, GenBank Report, Accession No. L09137, from Yanisch-Perron, C., et al. (May 2002)

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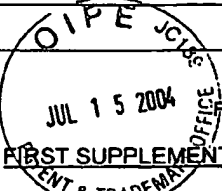
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	AP						Yes No

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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	87	NCBI Entrez, GenBank Report, Accession No. O09006, from Hromas, R., et al. (June 2002)
	AS	87	NCBI Entrez, GenBank Report, Accession No. P40224, from Nagasawa, T., et al. (June 2002)
	AT	87	NCBI Entrez, GenBank Report, Accession No. P34884, from Bernhagen, J., et al. (June 2002)

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	FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT			FIRST NAMED INVENTOR Sebbel <i>et al.</i>
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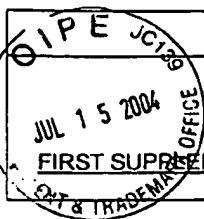
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MARY E MOSHER PRIMARY EXAMINER GROUP 1800	AR	88	NCBI Entrez, GenBank Report, Accession No. P06821, from Winter, G., et al. (June 2002)
	AS	88	NCBI Entrez, GenBank Report, Accession No. P30904, from Sakai, M., et al. (June 2002)
	AT	88	NCBI Entrez, GenBank Report, Accession No. NP_040754, from Inokuchi, Y., et al. (June 2003)

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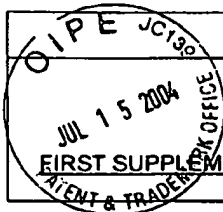
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PRIMARY EXAMINER GROUP 1800 SARAH E. MOSHER	AR	<u>89</u>	NCBI Entrez, GenBank Report, Accession No. NP_061354, from Ishikawa, S., et al. (September 2003)
	AS	<u>89</u>	NCBI Entrez, GenBank Report, Accession No. NP_031804, from Lenda, D.M., et al. (September 2003)
	AT	<u>89</u>	NCBI Entrez, GenBank Report, Accession No. NP_006410, from Luther, S.A., et al. (September 2003)

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	AP						Yes No


OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	90	NCBI Entrez, GenBank Report, Accession No. NP_000748, from Yao, G.Q., et al. (September 2003)
	AS	90	NCBI Entrez, GenBank Report, Accession No. P03069, from Hinnebusch, A.G., et al. (September 2003)
	AT	90	NCBI Entrez, GenBank Report, Accession No. O00585, from Hromas, R., et al. (September 2003)

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	FIRST NAMED INVENTOR Sebbel <i>et al.</i>			
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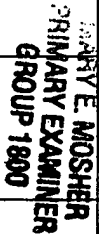
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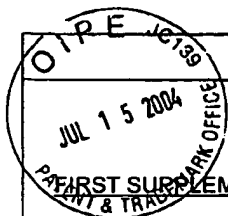
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	91	NCBI Entrez, GenBank Report, Accession No. P14174, from Weiser, W.Y., et al. (September 2003)
	AS	91	NCBI Entrez, GenBank Report, Accession No. P48061, from Spotila, L.D., et al. (September 2003)
	AT	91	NCBI Entrez, GenBank Report, Accession No. P80003, from Vandermeers, A., et al. (September 2003)

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APPLICATION NO.
09/848,616

FIRST NAMED INVENTOR
Sebbel et al.

FILING DATE
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FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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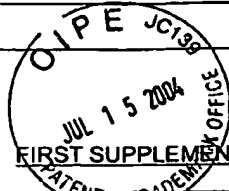
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	92	Swiss-Prot/TrEMBL, TN11_Mouse, Primary Accession No. O35235, entered in Swiss-Prot in October 2001
	AS	92	Swiss-Prot/TrEMBL, TN11_Human, Primary Accession No. O14788, entered in Swiss-Prot in October 2001
	AT	92	Copy of co-pending U.S. application 10/622,087, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)

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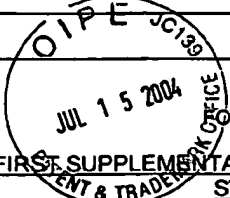
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MARY E. MOSHER, PRIMARY EXAMINER GROUP 1800	AR	<u>93</u>	Copy of co-pending U.S. Application No. 10/733,582, inventors Renner <i>et al.</i> , filed December 12, 2003 (NOT PUBLISHED)
	AS	<u>93</u>	Jegerlehner, A., et al., "A molecular assembly system that renders antigens of choice highly repetitive for induction of protective B cell responses," Vaccine 20:3104-3112, Elsevier Science, Ltd. (August 2002)
	AT	<u>93</u>	NCBI Entrez, PubMed Abstract, PMID: 2205968, Diallo, A., et al., "Morbillivirus group: genome organization and proteins," Vet. Microbiol. 23:155-163 (1990)

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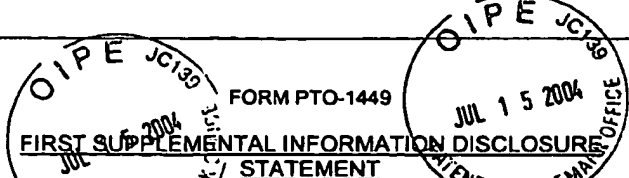
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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	94	Dialog File 351, Accession No. 1994-111516, Derwent WPI English language abstract for FR 2695563
	AS	94	International Search Report for International Application No. PCT/IB02/00168 mailed on November 4, 2002
	AT	94	International Search Report for International Application No. PCT/IB02/00166 mailed on October 29, 2002

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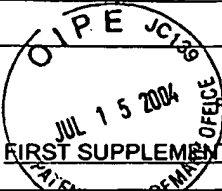
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	95	International Search Report for International Application No. PCT/IB02/00166, mailed January 31, 2003
	AS	95	Copy of Office Action mailed June 6, 2001, for United States Patent Application No. 09/449,631, Renner <i>et al.</i> , filed November 30, 1999.
	AT	95	Copy of Office Action mailed February 27, 2002, for United States Patent Application No. 09/449,631, Renner <i>et al.</i> , filed November 30, 1999.

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MARY E. MOSHER PRIMARY EXAMINER GROUP 1800	AR	96	Copy of Office Action mailed November 14, 2002, for United States Patent Application No. 09/449,631, Renner <i>et al.</i> , filed November 30, 1999.
	AS	96	Copy of Office Action mailed March 1, 2004, for United States Patent Application No. 10/050,902, Renner <i>et al.</i> , filed January 18, 2002.
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